PROJECT DESCRIPTION PROJECT CONTACTS PHASE CHART GENERAL The contact persons for this project are as follows: R R Y Y Y Y G G G THIS PROJECT INVOLVES INSTALLATION OF A NEW TRAFFIC SIGNAL JOHN CONCANNON ASSISTANT DISTRICT ENGINEER -TRAFFIC PHONE: 301-624-8141 EDWARD RODENHIZER CHIEF, SHA TRAFFIC SIGNAL SHOP PHONE: 410-787-7650 AT THE INTERSECTION OF US 29 (COLUMBIA PIKE) AND I-70 IN HOWARD COUNTY. US 29 (COLUMBIA PIKE) IS ASSUMED TO RUN IN THE NORTH-SOUTH DIRECTION. ANDREA ABEND DISTRICT UTILITY ENGINEER PHONE: 301-624-8115/8116 CHIEF TRAFFIC OPERATIONS DIVISION DIVISION PHONE: 410-787-7630 ◆G- G G FL/Y FL/Y FL/Y FL/Y R R PHASE 1 INTERSECTION OPERATION Y FLY FLY FLY R R 1 CHANGE THE INTERSECTION OPERATES IN A NEMA TWO PHASE. MARK FLACK ASSISTANT DISTRICT ENGINEER -CONSTRUCTION PHONE: 301-624-8201 FULL-TRAFFIC-ACTUATED MODE WITH SOUTHBOUND US 29 R | FL/Y | FL/Y | FL/Y | G | G | PHASE 2 OPERATING ALONE AND THE I-70 RAMP OPERATING ALONE $R \mid R \mid FLY \mid FLY \mid FLY \mid FLY \mid$ 2 CHANGE DAVE COYNE ASSISTANT DISTRICT ENGINEER -MAINTENANCE PHONE: 301-624-8108 FLASHING FL/R | FL/R | FL/Y | OPERATION EQUIPMENT LIST FOR CONTRACT NO. XX4435186 A. EQUIPMENT TO BE SUPPLIED BY THE SHA. WIRING DIAGRAM DESCRIPTION QUANTITY UNIT ITEM 9042 9044 9086 9570 [UPDATED] CONTROLLER ASC II WITH TELEMETRY [UPDATED] CONTROLLER CABINET, SIZE 6 [UPDATED] VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS WIRING KEY [UPDATED] SHEET ALUMINUM GROUND MOUNTED SIGN W3-3 (48" X 48") GROUND MOUNTED D95-25 (30" X 30") GROUND MOUNTED 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG, ALUMINUM SHIELDED) [UPDATED] SHEET ALUMINUM MAST ARM / POLE MOUNTED SIGN 9571 B 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 AWG - TRAY) W3-3 (48" X 48") POLE MOUNTED R3-1 (30" X 30") MAST ARM MOUNTED 7 CONDUCTOR ELECTRICAL CABLE C,D,E } (NO. 14 AWG) F.G.H.J > 5 CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR. NONINVASIVE DETECTOR LEAD-IN DESCRIPTION QUANTITY UNIT 1003 2002 MAINTENANCE OF TRAFFIC 1 CONDUCTOR ELECTRICAL CABLE TEST PIT EXCAVATION '/ (NO. 8 AWG THHN/THWN) 24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE 5007 8008 80020 80021 800225 800226 800334 80045 80055 80055 80059 80059 80059 80059 BREAKAWAY PEDESTAL POLE (ANY SIZE) NONINVASIVE DETECTOR (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT __ A.B.F.G.K.L a > VIDEO CAMERA CABLE REM & DISPOSE MAT & EQUIP PER ASSIGN TWIN MAST ARM POLE & 50 FT/70 FT MAST ARMS ANY 'T' DIMENSION -A,B,F,G,K,L NO. 6 AWG STRANDED BARE COPPER GROUND WIRE VIDEO DETECTION CAMERA & CABLE UP TO 500 FT -B,D,E,a,x1 INCH DETECTOR SLEEVE GALANIZED OR FLEXIBLE LIQUID TIGHT SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES — BORED SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES — BORED SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES — TRENCHED INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE) NO. 6 AWG STRANDED BARE COPPER GROUND WIRE METERED SERVICE PEDESTAL EMBEDDED ELECTRICAL CABLE 1—CONDUCTOR NO. 8 AWG—THHN/THWN FURNISH AND INSTALL ELECTRICAL HANDHOLE 12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION ELECTRICAL CABLE — 2 CONDUCTOR (ALUMINUM SHIELDED) ELECTRICAL CABLE — 5 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE — 7 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE — 2 CONDUCTOR (NO. 12 AWG) TC LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 AWG) SAW CUT FOR SIGNAL (LOOP DETECTOR) INSTALL CONTROLLER AND CABINET — BASE MOUNT GROUND ROD C,D,E,a,x $G \cdot \times \neg$ 1225 62 1050 LW LOOP WIRE PF POWER FEED C,D,E,a,x--A,C,F,G,K,L,x **/**--G•× INSTALL CONTROLLER AND CABINET - BASE MOUNT —F,G,× Γ , G, K, L, \times $-F \cdot G \cdot K \cdot L \cdot X$ ~A,C,× STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION TOD NO: XX443-02 SHA NO: HO445A51 NB US 29 (COLUMBIA PIKE) @ WB I-70 (REDUNDANT RAMP) NORTHBOUND US 29@ I-70 TRAFFIC SIGNAL DESIGN **GEOMETRIC LEGEND** === = EXISTING **GENERAL INFORMATION SHEET** PROPOSED REVISIONS **APPROVALS** UTILITY LEGEND SCALE 1" = 20'ADVERTISED DATE 1208 CONTRACT NO. XX4435185 ----SD-----SD-----STORM DRAIN TEAM LEADER ---- G---- GAS MAIN DESIGNED BY COUNTY _____ HOWARD ----W-----WATER MAIN LOGMILE _ 13002913,29 ASST, DIV. CHIEF -----S------SEWER MAIN CHECKED BY TIMS NO. BRUDIS & ASSOCIATES, INC. ---E-E ELECTRIC CABLES F.A.P. NO. _ TOD NO. ____ 9220 Rumsey Road; Suite 110 Columbia, Maryland 21045 Phone 410-884-3607 ───────────── TELEPHONE CABLES ----F-----FIBER-OPTIC TS NO. 4705 DRAWING SHEET NO. 2 OF 2 OFFICE DIRECTOR PLOTTED: Monday, December 15, 2008 AT 10:37 AM FILE: P:\04-005 Signals\US 29 @ I-70\Drawings\CADD\Working\pSG-N000_US29.dgn